

Regional HIV/AIDS Epidemiologic Profile of Norfolk County, Massachusetts: 2011

Recent changes to the presentation of Massachusetts HIV/AIDS surveillance data

Effective January 1, 2011, the Massachusetts Department of Public Health (MDPH), Bureau of Infectious Diseases, HIV/AIDS fact sheets, epidemiologic reports and other HIV data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed while residing in another state before being reported in Massachusetts. As of January 1, 2011, this resulted in the removal of 2,297 HIV/AIDS cases, of which 739 have died and 1,558 were living. These persons living with HIV/AIDS may currently reside and receive care in the Commonwealth. The total number of persons living in Massachusetts with HIV/AIDS, irrespective of location of diagnosis, is the basis for MDPH service planning. This change is partially a result of increased activities required by the Centers for Disease Control and Prevention (CDC) for de-duplication among states in an effort to identify cases that are counted multiple times in the National HIV/AIDS surveillance system. The cases are assigned to the state that reports the earliest date of AIDS diagnosis, if available. If the case has not progressed to AIDS, the case is assigned to the state with the earliest HIV diagnosis date. Please note that all previous HIV/AIDS fact sheets, data reports and presentations include cases that may have been first diagnosed in another state.

Also effective January 1, 2011, the Massachusetts Department of Public Health (MDPH) HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to eliminate the presumed heterosexual exposure mode category for males; those cases have been reassigned to the no identified risk (NIR) exposure mode category. The presumed heterosexual exposure mode category was used with the intention of identifying HIV exposure mode for females when sex with males is the only reported risk factor, there is no evidence of current or past injection drug use (IDU), and behavioral risk and HIV status information about male sexual partners are unknown. Twenty-nine percent of females living with HIV/AIDS and 41% of recent HIV diagnoses among females are reported in the presumed heterosexual exposure mode category. The application of the presumed heterosexual exposure mode category to males is overly inclusive in that female to male HIV transmission is biologically less probable, and there are alternate exposure modes that are possible for males, including sex with other men (MSM) or IDU. The CDC reports males diagnosed with HIV/AIDS who report sex with females as their only risk factor, without corresponding partner risk or HIV status information, in the NIR exposure mode category. This revision to report presumed heterosexual male HIV/AIDS cases as NIR will bring Massachusetts HIV/AIDS case reporting for males in alignment with CDC standards. The MDPH will maintain presumed heterosexual and heterosexual exposure mode categories for females.

Table 1. Total number of people reported with HIV infection or AIDS¹ by mortality status on December 31, 2010: Norfolk County, Massachusetts²

	N	%
People Living with HIV/AIDS	806	57%
People Reported with HIV or AIDS who are Deceased	610	43%
Total Number of People Reported with HIV Infection or AIDS	1,416	100%

¹ Does not include individuals diagnosed with HIV infection (non-AIDS) who died prior to January 1, 1999 or who were not in care on January 1, 1999

² Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/11

Table 2. Average annual rate of HIV infection diagnosis from 2007 to 2009 and HIV/AIDS prevalence rate on 12/31/10¹: Norfolk County, Massachusetts²

Average annual HIV diagnosis rate from 2007–2009	Average rate per 100,000	Average annual number of HIV diagnoses
Norfolk County, MA	5.5	36
Massachusetts Total	9.4	607.3

HIV/AIDS prevalence rate on 12/31/10	Rate per 100,000	Number of people living with HIV/AIDS
Norfolk County, MA	122.8	806
Massachusetts Total	273.7	17,621

¹ The denominators for prevalence calculations are based on year 2005 population estimates from the MDPH Bureau of Health Statistics, Research and Evaluation.

² Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/11

Table 3. People living with HIV/AIDS¹, deaths among people reported with HIV/AIDS, and newly diagnosed HIV infections by year²: 2000–2009, Norfolk County, Massachusetts³

Year	HIV/AIDS Prevalence	Deaths among those with HIV/AIDS	Diagnosis of HIV Infection
2000	575	13	58
2001	596	18	39
2002	642	8	54
2003	660	21	39
2004	696	12	48
2005	717	14	35
2006	722	22	27
2007	738	20	36
2008	763	13	38
2009	787	10	34

¹ Number of people living with HIV/AIDS on 12/31 of each year

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available 10 year period after the implementation of HIV infection reporting in 1999.

³ Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Data source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/11

Table 4. People diagnosed with HIV infection from 2007–2009¹ and people living with HIV/AIDS on December 31, 2010 by gender, place of birth, race/ethnicity, exposure mode, age at HIV infection diagnosis and current age: Norfolk County, Massachusetts²

HIV Infection Diagnoses			PLWH/A	
Gender:	N	%	N	%
Male	74	69%	603	75%
Female	34	31%	203	25%
Place of Birth:	N	%	N	%
US	-- ⁷	-- ⁷	610	76%
Puerto Rico/US Dependency ³	-- ⁷	-- ⁷	19	2%
Non-US	37	34%	177	22%
Race/Ethnicity:	N	%	N	%
White (non-Hispanic)	52	48%	475	59%
Black (non-Hispanic)	44	41%	234	29%
Hispanic/Latino	-- ⁷	-- ⁷	74	9%
Other/Undetermined ⁴	-- ⁷	-- ⁷	23	3%
Exposure Mode:	N	%	N	%
Male-to-male sex (MSM)	39	36%	326	40%
Injection Drug Use (IDU)	8	7%	119	15%
MSM/IDU	-- ⁷	-- ⁷	25	3%
Heterosexual Sex	12	11%	96	12%
Other	0	0%	20	2%
Total Undetermined	47	44%	220	27%
• Presumed Heterosexual Sex ⁵	16	15%	58	7%
• Undetermined ⁶	31	29%	162	20%
Age:	N	%	N	%
	At Diagnosis		On December 31, 2010	
Under 13	-- ⁷	-- ⁷	3	<1%
13 to 19	-- ⁷	-- ⁷	13	2%
20 to 24	10	9%	16	2%
25 to 29	12	11%	15	2%
30 to 34	11	10%	49	6%
35 to 39	15	14%	74	9%
40 to 44	19	18%	137	17%
45 to 49	15	14%	175	22%
50 to 54	9	8%	163	20%
55 to 59	5	5%	88	11%
60+	9	8%	73	9%
Total	108	100%	806	100%

¹ Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999.

² Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

³ Ninety-seven percent of all people diagnosed with HIV infection in MA who were born in a US dependency were born in Puerto Rico, 1% were born in the US Virgin Islands, <1% were born in American Samoa, <1% were born in Guam and 3% were born in an unknown dependency.

⁴ Other/Undetermined includes Asian/Pacific Islander, American Indian/Alaska Native and people of unspecified race/ethnicity

⁵ Includes female sex with male of unknown HIV status or risk. This category is limited to females.

⁶ Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

⁷ Numbers less than 5 for localities with populations of less than 50,000 are suppressed for the assurance of confidentiality.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/11

Table 5. People living with HIV/AIDS on December 31, 2010 by gender and race/ethnicity: Norfolk County, Massachusetts¹

Race/Ethnicity:	Male		Female	
	N	%	N	%
White (non-Hispanic)	398	66%	77	38%
Black (non-Hispanic)	128	21%	106	52%
Hispanic/Latino	58	10%	-- ³	-- ³
Other/Undetermined ²	19	3%	-- ³	-- ³
Total	603	100%	203	100%

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Other/Undetermined includes Asian/Pacific Islander, American Indian/Alaska Native and people of unspecified race/ethnicity.

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Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), data as of 1/1/11

Table 6. People living with HIV/AIDS on December 31, 2010 by gender and exposure mode: Norfolk County, Massachusetts¹

Exposure Mode:	Male		Female	
	N	%	N	%
Male-to-male sex (MSM)	326	54%	N/A	N/A
Injection drug use (IDU)	77	13%	42	21%
MSM/IDU	25	4%	N/A	N/A
Heterosexual sex	31	5%	65	32%
Other	10	2%	10	5%
Total Undetermined	134	22%	86	42%
• Presumed heterosexual sex ²	N/A	N/A	58	29%
• Undetermined ³	134	22%	28	14%
Total	603	100%	203	100%

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Includes female sex with male of unknown HIV status or risk. This category is limited to females.

³ Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

N/A=Not Applicable

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), data as of 1/1/11

Table 7. People diagnosed with HIV infection by gender and year of diagnosis: Norfolk County, Massachusetts¹, 2000–2009²

	Male		Female		Total
	N	%	N	%	
2000	43	74%	15	26%	58
2001	31	79%	8	21%	39
2002	38	70%	16	30%	54
2003	27	69%	12	31%	39
2004	39	81%	9	19%	48
2005	28	80%	7	20%	35
2006	21	78%	6	22%	27
2007	19	53%	17	47%	36
2008	29	76%	9	24%	38
2009	26	76%	8	24%	34

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available 10 year period after the implementation of HIV infection reporting in 1999.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), data as of 1/1/11

Table 8. People diagnosed with HIV infection by race/ethnicity and year of diagnosis: Norfolk County, Massachusetts¹, 2000–2009²

	White NH		Black NH		Hispanic/Latino		Other/ Undetermined ³		Total
	N	%	N	%	N	%	N	%	
2000	29	50%	20	34%	-- ⁴	-- ⁴	-- ⁴	-- ⁴	58
2001	18	46%	16	41%	-- ⁴	-- ⁴	-- ⁴	-- ⁴	39
2002	28	52%	17	31%	-- ⁴	-- ⁴	-- ⁴	-- ⁴	54
2003	22	56%	13	33%	-- ⁴	-- ⁴	-- ⁴	-- ⁴	39
2004	30	63%	10	21%	-- ⁴	-- ⁴	-- ⁴	-- ⁴	48
2005	21	60%	8	23%	-- ⁴	-- ⁴	-- ⁴	-- ⁴	35
2006	19	70%	7	26%	-- ⁴	-- ⁴	-- ⁴	-- ⁴	27
2007	12	33%	22	61%	-- ⁴	-- ⁴	-- ⁴	-- ⁴	36
2008	21	55%	12	32%	-- ⁴	-- ⁴	-- ⁴	-- ⁴	38
2009	19	56%	10	29%	-- ⁴	-- ⁴	-- ⁴	-- ⁴	34

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available 10 year period after the implementation of HIV infection reporting in 1999.

³ Other/Undetermined includes Asian/Pacific Islander, American Indian/Alaska Native and people of unspecified race/ethnicity.

⁴ Numbers less than 5 for localities with populations of less than 50,000 are suppressed for the assurance of confidentiality.

NH = Non-Hispanic

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), data as of 1/1/11

Table 9. People diagnosed with HIV infection by place of birth and year of diagnosis: Norfolk County, Massachusetts¹, 2000–2009²

	US		Puerto Rico/ US Dependency ³		Non-US		Total
	N	%	N	%	N	%	
2000	39	67%	-- ⁴	-- ⁴	-- ⁴	-- ⁴	58
2001	27	69%	-- ⁴	-- ⁴	-- ⁴	-- ⁴	39
2002	37	69%	-- ⁴	-- ⁴	-- ⁴	-- ⁴	54
2003	28	72%	-- ⁴	-- ⁴	-- ⁴	-- ⁴	39
2004	33	69%	-- ⁴	-- ⁴	-- ⁴	-- ⁴	48
2005	24	69%	-- ⁴	-- ⁴	-- ⁴	-- ⁴	35
2006	21	78%	-- ⁴	-- ⁴	-- ⁴	-- ⁴	27
2007	24	67%	-- ⁴	-- ⁴	-- ⁴	-- ⁴	36
2008	27	71%	-- ⁴	-- ⁴	-- ⁴	-- ⁴	38
2009	19	56%	-- ⁴	-- ⁴	-- ⁴	-- ⁴	34

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² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available 10 year period after the implementation of HIV infection reporting in 1999.

³ Ninety-seven percent of all people diagnosed with HIV infection in MA who were born in a US dependency were born in Puerto Rico, 1% were born in the US Virgin Islands, <1% were born in American Samoa, <1% were born in Guam and 3% were born in an unknown dependency.

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Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), data as of 1/1/11

Table 10. People diagnosed with HIV infection by exposure mode and year of diagnosis: Norfolk County, Massachusetts¹, 2000–2009²

	MSM		IDU		MSM/ IDU		HTSX		Other		Pres. HTSX ³		Undeter- mined ⁴		Total
	N	%	N	%	N	%	N	%	N	%	N	%	N	%	N
2000	19	33%	7	12%	-- ⁵	-- ⁵	9	16%	-- ⁵	-- ⁵	6	10%	12	21%	58
2001	9	23%	-- ⁵	-- ⁵	-- ⁵	-- ⁵	8	21%	0	0%	-- ⁵	-- ⁵	15	38%	39
2002	19	35%	7	13%	-- ⁵	-- ⁵	6	11%	-- ⁵	-- ⁵	6	11%	13	24%	54
2003	13	33%	5	13%	-- ⁵	-- ⁵	-- ⁵	-- ⁵	-- ⁵	-- ⁵	8	21%	9	23%	39
2004	23	48%	-- ⁵	-- ⁵	0	0%	-- ⁵	-- ⁵	0	0%	-- ⁵	-- ⁵	16	33%	48
2005	14	40%	-- ⁵	-- ⁵	0	0%	5	14%	0	0%	-- ⁵	-- ⁵	14	40%	35
2006	14	52%	-- ⁵	-- ⁵	0	0%	-- ⁵	-- ⁵	0	0%	-- ⁵	-- ⁵	5	19%	27
2007	7	19%	5	14%	-- ⁵	-- ⁵	7	19%	0	0%	-- ⁵	-- ⁵	8	22%	36
2008	19	50%	-- ⁵	-- ⁵	-- ⁵	-- ⁵	-- ⁵	-- ⁵	0	0%	-- ⁵	-- ⁵	10	26%	38
2009	13	38%	-- ⁵	-- ⁵	0	0%	-- ⁵	-- ⁵	0	0%	5	15%	13	38%	34

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² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available 10 year period after the implementation of HIV infection reporting in 1999.

³ Includes female sex with male of unknown HIV status or risk. This category is limited to females.

⁴ Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

⁵ Numbers less than 5 for localities with populations of less than 50,000 are suppressed for the assurance of confidentiality.

MSM = Male-to-Male Sex; IDU = Injection Drug Use; MSM/IDU = Male-to-Male Sex and Injection Drug Use; HTSX = Heterosexual Sex; Pres. HTSX = Presumed Heterosexual Sex

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), data as of 1/1/11

Table 11. People diagnosed with HIV infection and AIDS within two months and all people diagnosed with HIV infection by year of diagnosis: Norfolk County, Massachusetts¹, 2000–2009²

	HIV and AIDS diagnosed within two months	All HIV infection diagnoses	% diagnosed with HIV and AIDS within two months
Year:	N	N	%
2000	15	58	26%
2001	14	39	36%
2002	26	54	48%
2003	13	39	33%
2004	14	48	29%
2005	13	35	37%
2006	10	27	37%
2007	14	36	39%
2008	10	38	26%
2009	14	34	41%

¹ Effective, January 1, 2011 the Massachusetts Department of Public Health, HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available ten-year period after the implementation of HIV infection reporting in 1999.
Data Source: MDPH HIV/AIDS Surveillance Program, data as of 1/1/11

Table 12. People diagnosed with HIV infection and AIDS within two months and all people diagnosed with HIV infection by gender, race/ethnicity, and place of birth: Norfolk County, Massachusetts,¹ 2007–2009²

	HIV and AIDS diagnosed within two months	All HIV infection diagnoses	% diagnosed with HIV and AIDS within two months
Gender:	N	N	%
Male	28	74	38%
Female	10	34	29%
Race/Ethnicity:	N	N	%
White (non-Hispanic)	18	52	35%
Black (non-Hispanic)	14	44	32%
Hispanic/Latino	-- ⁵	-- ⁵	-- ⁵
Other/Undetermined ³	-- ⁵	-- ⁵	-- ⁵
Place of Birth:	N	N	%
US	-- ⁵	-- ⁵	-- ⁵
Puerto Rico/US Dependencies ⁴	-- ⁵	-- ⁵	-- ⁵
Non-US	12	37	32%
Total	38	108	35%

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² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999.

³ Other/Undetermined includes Asian/Pacific Islander, American Indian/Alaska Native and people of unspecified race/ethnicity.

⁴ Ninety-nine percent of people diagnosed with HIV infection from 2007–2009 who were born in a US dependency were born in Puerto Rico, <1% were born in the US Virgin Islands and <1% were born in Guam.

⁵ Numbers less than 5 for localities with populations of less than 50,000 are suppressed for the assurance of confidentiality.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), data as of 1/1/11